

Comparisons of Job Characteristics

Focus Occupation: [Biological Scientists, All Other \(19-1029\)](#)

Associated Occupation: [Zoologists and Wildlife Biologists \(19-1023\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 85

Focus Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation: Zoologists and Wildlife Biologists (19-1023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Biology	3.7	21.8	24.4	> Current knowledge level is likely sufficient
Geography	3.9	11.7	3.0	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation: Zoologists and Wildlife Biologists (19-1023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Reading Comprehension	10.7	14.6	18.5	>> Skill level is likely more than sufficient
Writing	9.2	14.1	16.2	> Skill level is likely sufficient
Science	4.5	13.6	16.1	> Skill level is likely sufficient
Systems Analysis	6.5	10.2	11.0	0 Current skill level may be sufficient
Systems Evaluation	6.4	9.4	10.5	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 97

Focus Occupation: Biological Scientists, All Other (19-1029)

Associated Occupation: Zoologists and Wildlife Biologists (19-1023)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	16.7	17.9	0	Current ability level may be sufficient
Written Comprehension	11.0	16.0	18.5	>	Current ability level is likely sufficient
Oral Expression	12.4	15.5	17.1	>	Current ability level is likely sufficient
Written Expression	9.8	15.5	17.9	>	Current ability level is likely sufficient
Category Flexibility	9.0	11.0	13.2	>	Current ability level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 54

Focus Occupation: Biological Scientists, All Other (19-1029)
Associated Occupation: Zoologists and Wildlife Biologists (19-1023)

Tools and Technologies	Exclusivity
Autoclave and sterilizer equipment and accessories	12
Business function specific software	1
Chemical evaluation instruments and supplies	10
Computers	1
Content authoring and editing software	1
Data management and query software	1
Electrochemical measuring instruments and accessories	9
General laboratory glassware and plasticware and supplies	13
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Laboratory centrifuges and accessories	13
Laboratory cooling equipment	25
Laboratory enclosures and accessories	17
Laboratory incubating equipment	20
Laboratory ovens and accessories	15
Network applications software	1
Pipettes and liquid handling equipment and supplies	16
Safety apparel	4
Spectroscopic equipment	10
Viewing and observing instruments and accessories	4
Vision protection and accessories	3
Weight measuring instruments	7

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.